# Office Memorandum • UNITED STATES GOVERNMENT

DATE: 11 January 1960 Chief, Research & Development Branch

Chief, Research & Development Laboratory FROM:

Acceptance Test on RS-19 SUBJECT:

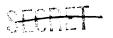
Tests were conducted on several production RS-19

The results of these tests are presented in the

attached report. Also, attached is a list of equipment received.

Attachments:

A&A Report No. 239 List, RS-19 Equipment Received



CONTIDENTIAL

25X1

25X1

25X1

25X1

SECRET

#### RS-19 EQUIPMENT RECEIVED

Item	Quantity	
RS-19 Transmitter	8	
Antenna Cable Microphone and Cable Remote Control Battery Charging Cables	8 8 9 9	
RS-19 Receiver	9	
Antenna Cable Earphones, Cable and Hooks Battery Charging Cables	9 9 11	
RS-19 Retransmitter Loop Antennas	9 9	
	10	25 <b>X</b> 1
	4	25 <b>X</b> 1
Power Supplies	5	
Test Oscillators and Antennas	5	
Test Meters	4	
Cables (Loop Antenna) Cables (Receiver)	<u> </u>	
Instruction Manuals	10	
Tuning Controls	9	
Extra Loading Coils	3	





## SECRET

A&A Report No. 239

4 January 1960

#### 1. Tests Performed

The RS-19 equipments were submitted to several tests. They included measuring the transmitter power output and frequency, measuring the receiver 20 db quieting sensitivity and receiving frequency, and an "operational" check of the entire system. The "operational" tests included connecting the individual transmitter to the antenna and coupling a small amount of the signal to the receiver. The transmitter was then checked for both tone and voice modulation by both the self contained controls and the remote control. The receiver squelch control and audio output (to earphones) were checked. The retransmitter and receiver were then checked.

25X1

### 2. Tests Results

See Table 1, page 2.

#### 3. Conclusions

Receiver number eight has been sent back to the manufacturer for realignment. It is suggested that system number four be sent back to the manufacturer to eliminate the spurious audio tone. Receiver number three should also be returned so that the test point circuitry can be repaired and unit can be realigned.

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Test Results

	TRANSMITTER Output		RECEIVER				
Unit	Freq.	Power (Watts)	Freq.	20 db Quieting (uv)	Re -Tx	M-Rec	Remarks on Operational Check
1	8.165	1.83	8.166	2		8	8
2	8.165	1.83	8.172	5		8	
3	8.165	1.94	8.171	18	8	8	The test point circuitry in the receiver is inoperative.
4	8.165	1.68	8.169	2	8	No	There was a spurious audio tone during voice trans-mission.
5	8.165	1.55	8.170	0.45	8	8	8
6	8.165	1.68	8.163	2.2	8	8	8
7	-	-	8.169	2.2	8	5	No transmitter supplied. *
8	8.165	1.55	8.147	15,000	•	No	Bad sensitivity and squelch circuit (Receiver returned to manufacturer.)
9	8.165	1.68	8.165	7	8	•	8

Note: s = satisfactory

TABLE I

<sup>\*</sup> Transmitter No. 8 was checked with receiver no. 7 and found to be satisfactory.